

CLAIMS LISTING

- 1.(currently amended) A stimuable phosphor screen comprising
- a radiation-transparent substrate;
 - a stimuable phosphor layer formed on said substrate;
 - a first transparent organic film covering said stimuable phosphor layer; and
 - a second transparent film formed on said first transparent organic film,

characterized in that said second transparent film is a polymeric film containing ~~polymers selected from the group consisting of silazane and siloxazane polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane polymers with compatible film-forming polymers.
- 2.(original) A stimuable phosphor screen according to claim 1, further comprising an intermediate transparent organic film between said substrate and said stimuable phosphor layer.
- 3.(original) A stimuable phosphor screen according to claim 1, wherein said organic film is a poly-paraxylylene film.

4.(previously presented) A stimuable phosphor screen according to claim 2, wherein at least one of said intermediate transparent organic film and said first transparent organic film is a poly-paraxylylene film.

5.(original) A stimuable phoshor screen according to claim 1, wherein said substrate is an aluminum or an amorphous carbon (a-C) substrate.

6.(original) A stimuable phoshor screen according to claim 2, wherein said substrate is an aluminum or an amorphous carbon (a-C) substrate.

7.(original) A stimuable phoshor screen according to claim 3, wherein said substrate is an aluminum or an amorphous carbon (a-C) substrate.

8.(original) A stimuable phoshor screen according to claim 4, wherein said substrate is an aluminum or an amorphous carbon (a-C) substrate.

- 9.(original) A stimuable phoshor screen according to claim 1,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 10.(original) A stimuable phoshor screen according to claim 2,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 11.(original) A stimuable phoshor screen according to claim 3,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 12.(original) A stimuable phoshor screen according to claim 4,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 13.(original) A stimuable phoshor screen according to claim 5,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 14.(original) A stimuable phoshor screen according to claim 6,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.

15.(original) A stimuable phoshor screen according to claim 7,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.

16.(original) A stimuable phoshor screen according to claim 8,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.

17.(original) A radiation image sensor comprising a stimuable
phosphor screen according to claim 9, and an imaging device
disposed in order to face said stimuable phosphor screen.

18.(original) A radiation image sensor comprising a stimuable
phosphor screen according to claim 10, and an imaging device
disposed in order to face said stimuable phosphor screen.

19.(original) A radiation image sensor comprising a stimuable
phosphor screen according to claim 11, and an imaging device
disposed in order to face said stimuable phosphor screen.

- 20.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 12, and an imaging device disposed in order to face said stimuable phosphor screen.
- 21.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 13, and an imaging device disposed in order to face said stimuable phosphor screen.
- 22.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 14, and an imaging device disposed in order to face said stimuable phosphor screen.
- 23.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 15, and an imaging device disposed in order to face said stimuable phosphor screen.
- 24.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 16, and an imaging device disposed in order to face said stimuable phosphor screen.
- 25.(original) A radiation image sensor according to claim 17,
wherein said
imaging device is a CCD.

26.(original) A radiation image sensor according to claim 18,
wherein said
imaging device is a CCD.

27.(original) A radiation image sensor according to claim 19,
wherein said
imaging device is a CCD.

28.(original) A radiation image sensor according to claim 20,
wherein said
imaging device is a CCD.

29.(original) A radiation image sensor according to claim 21,
wherein said
imaging device is a CCD.

30.(original) A radiation image sensor according to claim 22,
wherein said
imaging device is a CCD.

31.(original) A radiation image sensor according to claim 23,
wherein said
imaging device is a CCD.

32.(original) A radiation image sensor according to claim 24,
wherein said
imaging device is a CCD.

33.(currently amended) A method of preparing a stimuable
phosphor screen or panel according to claim 1, said method
comprising the steps of:

- forming a stimuable phosphor layer on a radiation-transparent substrate;
- forming a first transparent organic film covering said stimuable phosphor layer; and
- forming a second transparent film formed on said first transparent organic film, wherein said second transparent film is a polymeric film containing ~~polymers selected from the group consisting of silazane and siloxazane type polymers, mixtures thereof~~ and mixtures of said silazane or siloxazane polymers with compatible film-forming polymers; and wherein at least one of said first transparent organic

film and said second transparent organic film is a poly-paraxylylene film.

- 34.(currently amended) A method of preparing a stimulable phosphor screen or panel according to claim 2, said method comprising the steps of:
- forming a stimulable phosphor layer on a radiation-transparent substrate;
 - forming a first transparent organic film covering said stimulable phosphor layer; and
 - forming a second transparent film formed on said first transparent organic film, wherein said second transparent film is a polymeric film containing ~~polymers selected from the group consisting of silazane and siloxazane type polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane polymers with compatible film-forming polymers; and wherein said organic film is a poly-paraxylylene film.

- 35.(currently amended) A method of preparing a stimulable phosphor screen or panel according to claim 3, said method comprising the steps of:
- forming a stimulable phosphor layer on a radiation-transparent substrate;

- forming a first transparent organic film covering said stimuable phosphor layer; and
- forming a second transparent film formed on said first transparent organic film, wherein said second transparent film is a polymeric film containing ~~polymers selected from the group consisting of silazane and siloxazane type~~ polymers, mixtures thereof and mixtures of said silazane or siloxazane polymers with compatible film-forming polymers; and wherein said organic film is a poly-paraxylylene film.

36. (currently amended) A method of preparing a stimuable phosphor screen or panel according to claim 4, said method comprising the steps of:

- forming a stimuable phosphor layer on a radiation-transparent substrate;
- forming a first transparent organic film covering said ~~needle-shaped~~ stimuable phosphor layer; and
- forming a second transparent film formed on said first transparent organic film, wherein said second transparent film is a polymeric film containing ~~polymers selected from the group consisting of silazane and siloxazane type~~ polymers, mixtures thereof and mixtures of said silazane or siloxazane type polymers with compatible film-forming

polymers; and wherein ~~at least one of~~ said first transparent organic film ~~and said second transparent organic film~~ is a poly-paraxylylene film.

37.(original) A method according to claim 33, said method comprising an additional step of forming a third transparent film layer, wherein said third transparent film layer is a polymeric film covering said second transparent film layer.

38.(original) A method according to claim 34, said method comprising an additional step of forming a third transparent film layer, wherein said third transparent film layer is a polymeric film covering said second transparent film layer.

39.(original) A method according to claim 35, said method comprising an additional step of forming a third transparent film layer, wherein said third transparent film layer is a polymeric film covering said second transparent film layer.

40.(original) A method according to claim 36, said method comprising an additional step of forming a third transparent film layer, wherein said third transparent film layer is a polymeric film covering said second transparent film layer.

41.(currently amended) A method according to claim 37, wherein said third transparent film layer is a polymeric film layer containing ~~polymers selected from the group consisting of silazane and siloxazane polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane ~~type~~ polymers with compatible film-forming polymers.

42.(currently amended) A method according to claim 38, wherein said third transparent film layer is a polymeric film layer containing ~~polymers selected from the group consisting of silazane and siloxazane polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane polymers with compatible film-forming polymers.

43.(currently amended) A method according to claim 39, wherein said third transparent film layer is a polymeric film layer containing ~~polymers selected from the group consisting of silazane and siloxazane polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane ~~type~~ polymers with compatible film-forming polymers.

44.(currently amended) A method according to claim 40, wherein said third transparent film layer is a polymeric film layer

containing ~~polymers selected from the group consisting of silazane and siloxazane polymers, mixtures thereof and~~ mixtures of said silazane or siloxazane polymers with compatible film-forming polymers.

45.(currently amended) A stimuable phosphor screen comprising

- a radiation-transparent substrate;
- a stimuable phosphor layer formed on said substrate;
- a first transparent organic film covering said stimuable phosphor layer; and
- a second transparent film formed on said first transparent organic film, characterized in that said second transparent film is a polymeric film containing ~~polymers~~ siloxazane polymers and a mixture thereof with compatible film-forming polymer.

46.(previously presented) The stimuable phosphor screen of claim 45 wherein said ~~second transparent film further comprises~~ compatible film-forming polymer comprises at least one material selected from urethane acrylate and silazane.

47.(new) The stimuable phosphor screen of claim 1 wherein said compatible film-forming polymer is urethane acrylate.

- 48.(new) The method of preparing a stimuable phosphor screen of panel of claim 33 wherein said compatible film-forming polymer is urethane acrylate.
- 49.(new) The method of preparing a stimuable phosphor screen of panel of claim 34 wherein said compatible film-forming polymer is urethane acrylate.
- 50.(new) The method of preparing a stimuable phosphor screen of panel of claim 35 wherein said compatible film-forming polymer is urethane acrylate.
- 51.(new) The method of preparing a stimuable phosphor screen of panel of claim 36 wherein said compatible film-forming polymer is urethane acrylate.
- 52.(new) The method of claim 41 wherein said compatible film-forming polymer is urethane acrylate.
- 53.(new) The method of claim 42 wherein said compatible film-forming polymer is urethane acrylate.
- 54.(new) The method of claim 43 wherein said compatible film-forming polymer is urethane acrylate.
- 55.(new) The method of claim 44 wherein said compatible film-forming polymer is urethane acrylate.